

**REMARKS**

Claims 1-3, 6-10, 13-16 and 19 are rejected under 35 U.S.C. 102(e) as being anticipated by Hjelm et al. (US Patent 6,529,497) ("Hjelm"). Claims 4, 5, 11, 12, 17 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hjelm et al.

Claims 1, 8 and 14 have been amended to include the limitations of claims 4, 5; 11, 12; and 17, 18, respectively. Thus, Applicants respectfully disagree with the rejection of claims 4, 5, 11, 12, 17 and 18. Regarding claims 4, 11 and 17, the Examiner states that Hjelm teaches the limitations of claims 1, 8, and 14 which are independent claims of claims 4, 11, and 17 respectively. Hjelm fails to teach determining a communication system statistic comprising the step of determining a length of time that a data transmission call has taken place. However, it is known in the art that the length of time of data transmission is one of the factors that contributes to the traffic load of the system. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to include the step of determining the length of time of the data transmission in order to determine the system statistic.

Applicants respectfully disagree. System load is calculated by multiplying the average call hold time of all mobiles in the system/sector by the rate of call arrivals for all mobiles in the system/sector. In the present invention of claims 1, 8 and 14, as amended, the inactivity timer depends (in a particular scenario) on the length of time that a current data transmission call of a particular remote unit has taken place. Hjelm is sensitive only to the total sector/system load. Thus, if the average call hold time was doubled, but the call arrival rate was cut in half, the system load would not have changed and thus, with Hjelm, the inactivity timer would remain unchanged. However, the current invention of claims 1, 8 and 14 would adjust the inactivity timer, because the trigger is not system load, but rather the length of time the current call of a particular remote station has taken place. Put another way, according to the teachings of Hjelm, all remote units in a given sector would have the same inactivity timer because all remote units in that sector are in a system with the same system load. By contrast,

according to claims 1, 8 and 14, individual calls will experience different inactivity timers based on the call hold time experienced by the particular remote unit.

Regarding claims 5, 12 and 18, the Examiner states that Hjelm teaches the limitations of claims 1, 8, and 14 which are independent claims of claims 5, 12, and 18 respectively. Hjelm fails to teach determining a communication system statistic comprises the step of determining a link speed for the data transmission. However, it is known in the art that the link speed of data transmission is one of the factors that contributes to the traffic load of the system. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to include the step of determining the link speed of data transmission in order to determine the system statistic.

Applicants respectfully disagree for similar reasons as stated above. Hjelm teaches adjusting the inactivity timer as a function of system load, and does not teach adjusting it as a function of link speed achieved by a specific user/remote unit. In Hjelm, the mobile inactivity timer is dependent on the total system load. Thus, it may be obvious given the prior art to adjust the inactivity timer based on the average per user data rate achieved in the sector, or on the total kilobits per second being carried by the sector. However, the invention of claims 1, 8 and 14 recites adjusting the inactivity timer of a remote unit based on remote unit's link speed. In other words, according to claims 1, 8 and 14, the inactivity timer is adjusted based on the link speed of a current call of a particular remote unit, not based on the average link speed in the sector, the link speed of other users in the sector, or the total link speed of all users in the sector/system.

In view of the foregoing remarks, Applicants submit that independent claims 1, 8 and 14 are in condition for allowance. Applicants request the reconsideration and reexamination of this application and the timely allowance of the pending claims.

Please charge any fees associated herewith, including extension of time fees, to 50-2117.

Respectfully submitted,  
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